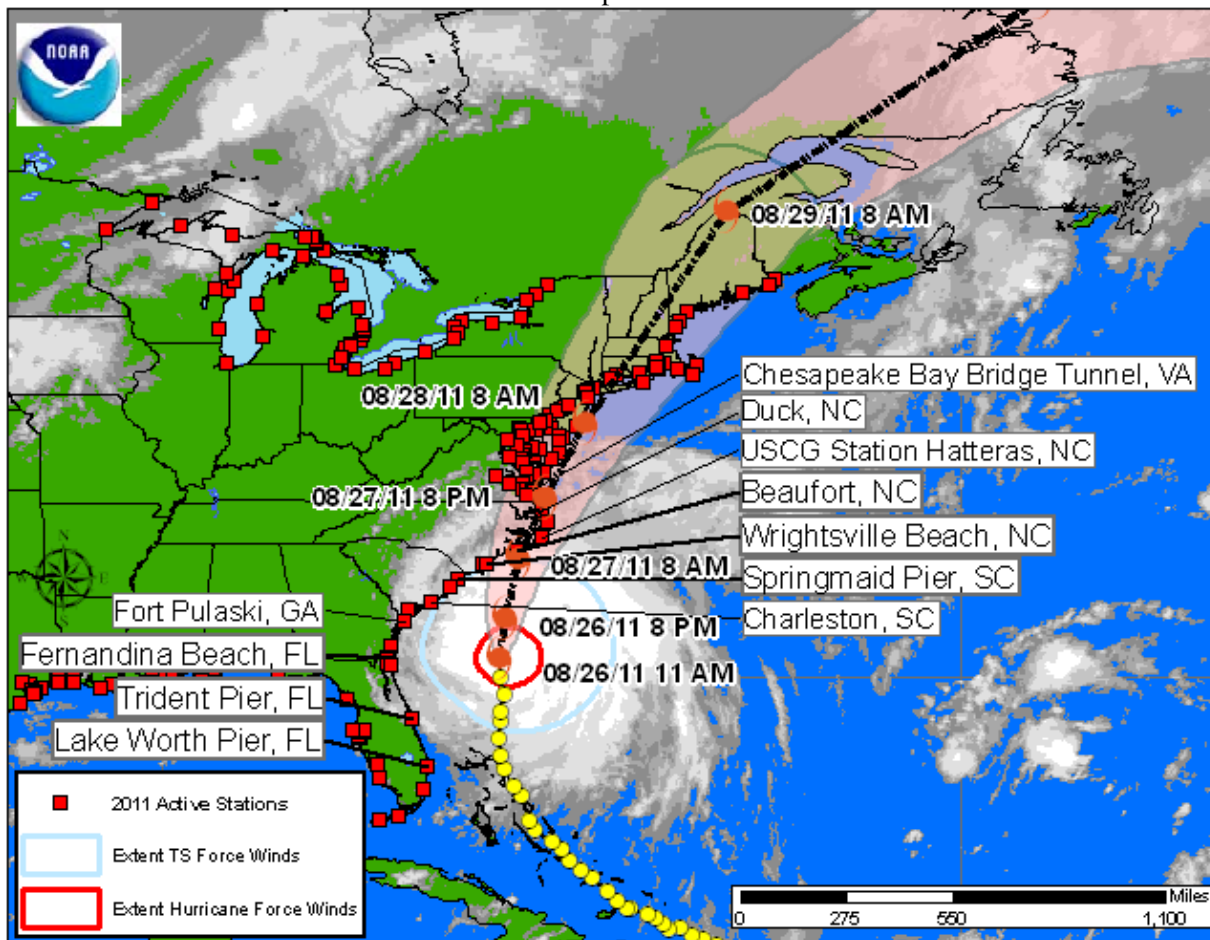




Hurricane IRENE QuickLook
Posted: 12:00 EDT 08/26/2011

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/26/2011 12:00 EDT, water levels at stations from the eastern shore of Florida to North Carolina are elevated between 1.0 and 2.0 ft above predicted. Winds are generally increasing along the Carolinas at or above 20 knots, and gusts up to 45 knots have been observed widely. Barometric pressure continues to fall across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Lake Worth Pier, FL Next predicted high tides are 3.12 ft (0.95 m) at 08/26/2011 18:39 EDT and 3.14 ft (0.96 m) at 08/27/2011 06:53 EDT.

Trident Pier, FL Next predicted high tides are 4.29 ft (1.31 m) at 08/26/2011 18:19 EDT and 3.67 ft (1.12 m) at 08/27/2011 06:34 EDT.

Hurricane IRENE QuickLook, POSTED 12:00 EDT 08/26/2011

Fernandina Beach, FL: Next predicted high tides are 7.0 ft (2.13 m) at 08/26/2011 19:25 EDT and 6.3 ft (1.93 m) at 08/27/2011 07:45 EDT.

Fort Pulaski, GA: Next predicted high tides are 8.0 ft (2.45 m) at 08/26/2011 18:35 EDT and 7.2 ft (2.21 m) at 08/27/2011 07:00 EDT.

Springmaid Pier, SC Next predicted high tides are 6.02 ft (1.83 m) at 08/26/2011 17:50 EDT and 5.33 ft (1.62 m) at 08/27/2011 06:21 EDT.

Wrightsville Beach, NC Next predicted high tides are 4.74 ft (1.44 m) at 08/26/2011 17:57 EDT and 4.16 ft (1.27 m) at 08/27/2011 06:20 EDT.

USCG Station Hatteras, NC: Next predicted high tides are 0.5 ft (0.17 m) at 08/26/2011 19:48 EDT and 0.5 ft (0.16 m) at 08/27/2011 07:51 EDT.

Duck, NC Next predicted high tides are 3.99 ft (1.22 m) at 08/26/2011 17:54 EDT and 3.49 ft (1.06 m) at 08/27/2011 06:22 EDT.

Chesapeake Bay Bridge Tunnel, VA: Next predicted high tides are 3.1 ft (0.95 m) at 08/26/2011 18:47 EDT and 2.8 ft (0.87 m) at 08/27/2011 07:13 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For information on Highest Astronomical Tide (HAT), NAVD88 and other datums, please see [Tidal Datums](#). For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst:WFR

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

HURRICANE IRENE ADVISORY NUMBER 25

...OUTER RAIN BANDS OF LARGE HURRICANE IRENE NEARING THE COAST OF THE CAROLINAS....

AT 1100 AM EDT HURRICANE IRENE WAS LOCATED ABOUT 330 MI SSW OF CAPE HATTERAS NORTH CAROLINA

WATCHES AND WARNINGS

CHANGES IN WATCHES AND WARNINGS WITH THIS ADVISORY...

THE HURRICANE WARNING HAS BEEN EXTENDED NORTHWARD IN THE CHESAPEAKE BAY TO DRUM POINT.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...

* LITTLE RIVER INLET NORTH CAROLINA NORTHWARD TO SANDY HOOK NEW JERSEY...INCLUDING THE PAMLICO...ALBEMARLE...AND CURRITUCK

SOUNDS...DELAWARE BAY...AND CHESAPEAKE BAY SOUTH OF DRUM POINT.

A HURRICANE WATCH IS IN EFFECT FOR...

* NORTH OF SANDY HOOK TO THE MOUTH OF THE MERRIMACK RIVER
MASSACHUSETTS...INCLUDING NEW YORK CITY...LONG ISLAND...LONG ISLAND
SOUND...BLOCK ISLAND...BOSTON...MARTHAS VINEYARD AND NANTUCKET.

A TROPICAL STORM WARNING IS IN EFFECT FOR...

* NORTH OF EDISTO BEACH SOUTH CAROLINA TO LITTLE RIVER INLET
* CHESAPEAKE BAY FROM DRUM POINT NORTHWARD AND THE TIDAL POTOMAC

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED
SOMEWHERE WITHIN THE WARNING AREA. A WARNING IS TYPICALLY ISSUED 36 HOURS
BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL-STORM-FORCE
WINDS...CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS.
PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED
SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE WITHIN THE
WATCH AREA. A WATCH IS TYPICALLY ISSUED 48 HOURS BEFORE THE ANTICIPATED FIRST
OCCURRENCE OF TROPICAL-STORM-FORCE WINDS...CONDITIONS THAT MAKE OUTSIDE
PREPARATIONS DIFFICULT OR DANGEROUS.

WATCHES AND WARNINGS WILL LIKELY BE EXTENDED NORTHWARD INTO NEW ENGLAND
THIS AFTERNOON. INTERESTS ELSEWHERE IN NORTHEASTERN UNITED STATES AND
SOUTHEASTERN CANADA SHOULD MONITOR THE PROGRESS OF IRENE.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA...INCLUDING POSSIBLE INLAND
WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL
NATIONAL WEATHER SERVICE FORECAST OFFICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 AM EDT THE CENTER OF HURRICANE IRENE WAS LOCATED NEAR LATITUDE 30.7
NORTH...LONGITUDE 77.3 WEST. IRENE IS
MOVING TOWARD THE NORTH NEAR 14 MPH AND THIS MOTION IS EXPECTED TO CONTINUE
TODAY. A GRADUAL TURN TOWARD THE NORTH-NORTHEAST SHOULD BEGIN BY
SATURDAY. ON THE FORECAST TRACK...

THE CORE OF THE HURRICANE WILL PASS WELL OFF THE COAST OF GEORGIA
TODAY...APPROACH THE COAST OF NORTH CAROLINA TONIGHT...AND PASS NEAR OR OVER
THE NORTH CAROLINA COAST SATURDAY. THE HURRICANE IS FORECAST TO MOVE NEAR
OR OVER THE MID-ATLANTIC COAST SATURDAY NIGHT.

MAXIMUM SUSTAINED WINDS HAVE DECREASED TO NEAR 105 MPH WITH HIGHER GUSTS.
IRENE IS A CATEGORY TWO HURRICANE ON THE SAFFIR-SIMPSON HURRICANE WIND
SCALE. LITTLE CHANGE IN STRENGTH IS FORECAST BEFORE IRENE REACHES THE COAST
OF NORTH CAROLINA.

IRENE IS A LARGE TROPICAL CYCLONE. HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 90 MILES FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 290 MILES. NOAA BUOY 41013 LOCATED ABOUT 40 MILES SOUTH-SOUTHEAST OF SOUTHPORT NORTH CAROLINA RECENTLY MEASURED A WIND GUST TO 47 MPH.

THE LATEST MINIMUM CENTRAL PRESSURE ESTIMATED FROM RECONNAISSANCE AIRCRAFT DATA IS 946 MB.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM FORCE WINDS ARE EXPECTED TO FIRST REACH THE SOUTHERN PORTION OF THE WARNING AREA THIS AFTERNOON. HURRICANE FORCE WINDS ARE EXPECTED TO FIRST REACH THE HURRICANE WARNING AREA TONIGHT OR SATURDAY MORNING...AND THEN SPREAD NORTHWARD IN THE WARNING AREA THROUGH SUNDAY.

STORM SURGE...AN EXTREMELY DANGEROUS STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 6 TO 11 FEET ABOVE GROUND LEVEL IN THE HURRICANE WARNING AREA IN NORTH CAROLINA...INCLUDING THE ALBEMARLE AND PAMLICO SOUNDS. STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 4 TO 8 FEET ABOVE GROUND LEVEL OVER SOUTHERN PORTIONS OF THE CHESAPEAKE BAY...INCLUDING TRIBUTARIES...AND THE EASTERN SHORE OF THE DELMARVA PENINSULA. STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 3 TO 6 FEET ABOVE GROUND LEVEL ALONG THE JERSEY SHORE. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE... DESTRUCTIVE...AND LIFE-THREATENING WAVES.

RAINFALL...IRENE IS EXPECTED TO PRODUCE RAINFALL ACCUMULATIONS OF 6 TO 10 INCHES...WITH ISOLATED MAXIMUM AMOUNTS OF 15 INCHES...FROM EASTERN NORTH CAROLINA NORTHWARD THROUGH THE MID-ATLANTIC STATES INTO NEW ENGLAND THROUGH MONDAY MORNING. THESE RAINS COULD CAUSE WIDESPREAD FLOODING AND LIFE-THREATENING FLASH FLOODS.

SURF...LARGE SWELLS GENERATED BY IRENE ARE AFFECTING PORTIONS OF THE COAST OF THE SOUTHEASTERN UNITED STATES. THESE SWELLS WILL CAUSE LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS.

FORECASTER BROWN

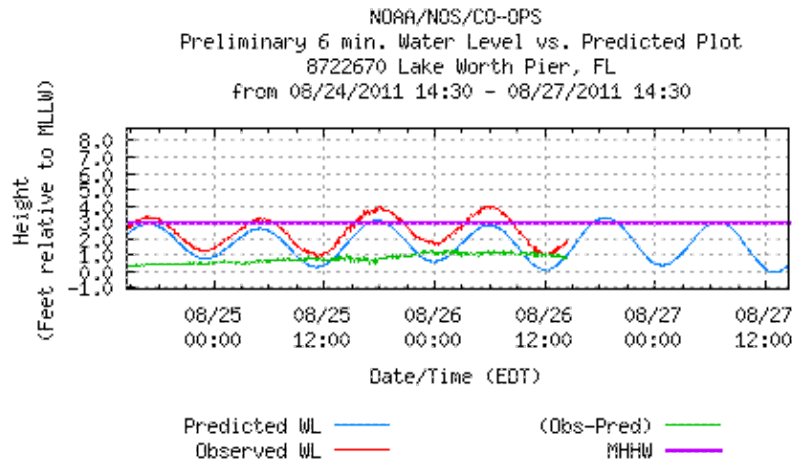
For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Lake Worth Pier - Water Level](#), [Lake Worth Pier - Winds](#), [Lake Worth Pier - Barometric](#), [Lake Worth Pier - Air/Water Temp](#), [Trident Pier - Water Level](#), [Trident Pier - Winds](#), [Fernandina Beach - Water Level](#), [Fernandina Beach - Air/Water Temp](#), [Fernandina Beach - Winds](#), [Fernandina Beach - Barometric](#), [Fort Pulaski - Water Level](#), [Fort Pulaski - Air/Water Temp](#), [Fort Pulaski - Winds](#), [Fort Pulaski - Barometric](#), [Charleston - Water Level](#), [Charleston - Winds](#), [Charleston - Barometric](#), [Springmaid Pier - Water Level](#), [Springmaid Pier - Winds](#), [Springmaid Pier - Barometric](#), [Wrightsville Beach - Water Level](#), [Wrightsville](#)

Hurricane IRENE QuickLook, POSTED 12:00 EDT 08/26/2011

Beach - Winds, Wrightsville Beach - Barometric, Beaufort - Water Level, Beaufort - Winds, Beaufort - Barometric, USCG Station Hatteras - Water Level, USCG Station Hatteras - Winds, USCG Station Hatteras - Barometric, Duck - Water Level, Duck - Winds, Duck - Barometric, Chesapeake Bay Bridge Tunnel - Water Level, Chesapeake Bay Bridge Tunnel - Winds, Chesapeake Bay Bridge Tunnel - Barometric,

Lake Worth Pier, FL - Return to List

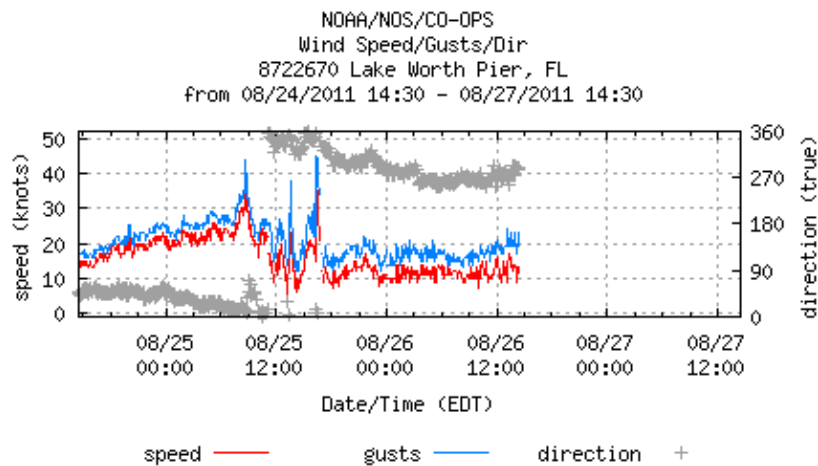


Last Observed Sample: 08/26/2011 14:24 (EDT)

Relative to MLLW: **Observed: 1.80 ft.** **Predicted: 0.99 ft.** **Residual: 0.81 ft.**

Historical Maximum Water Level: Nov 23 1984, 1.88 ft. above MHHW

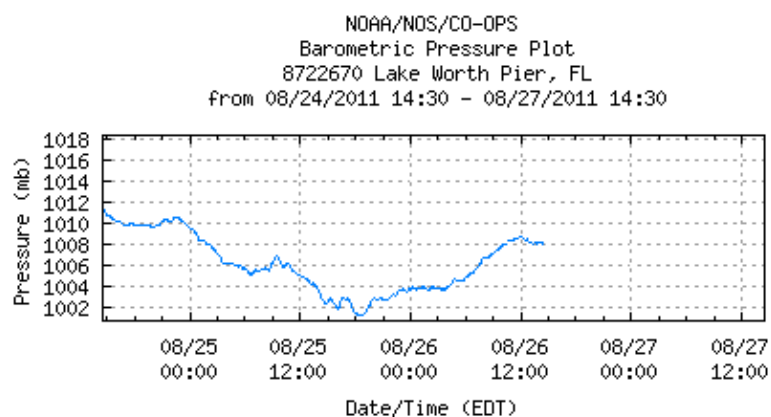
Lake Worth Pier, FL - Return to List



Last Observed Sample: 08/26/2011 14:24 (EDT)

Wind Speed: 13 knots **Gusts: 23 knots** **Direction: 287° T**

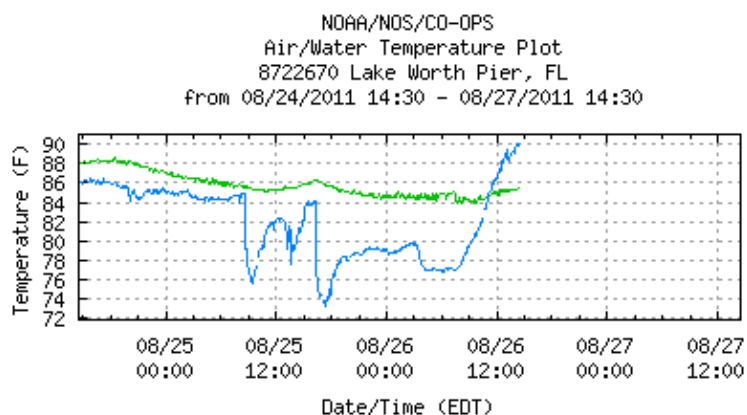
[Lake Worth Pier, FL - Return to List](#)



Last Observed Sample: 08/26/2011 14:24 (EDT)

Barometric Pressure: 1008.1 mb

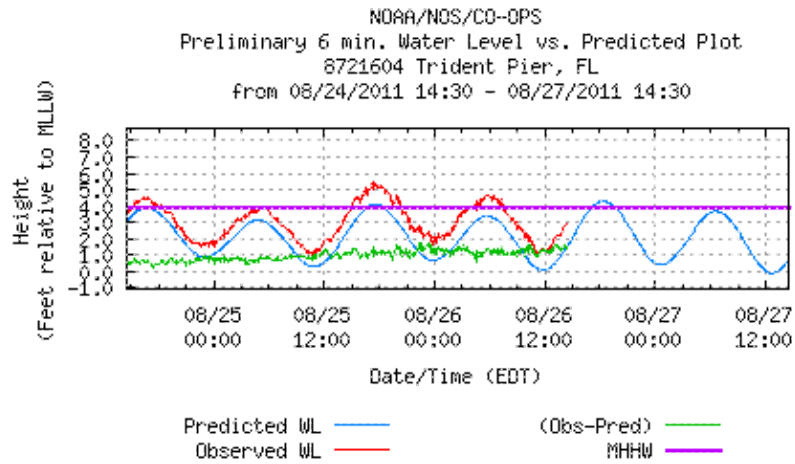
[Lake Worth Pier, FL - Return to List](#)



Last Observed Sample: 08/26/2011 14:24 (EDT)

Water Temperature: 85.5° F Air Temperature: 90.0° F

Trident Pier, FL - Return to List

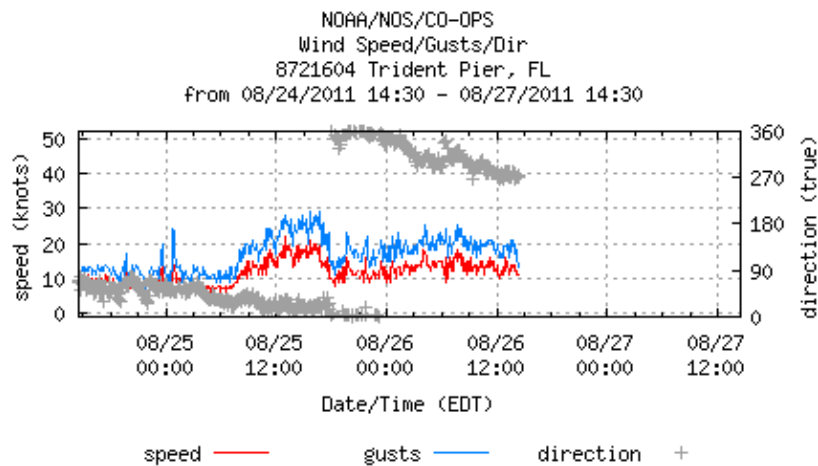


Last Observed Sample: 08/26/2011 14:24 (EDT)

Relative to MLLW: **Observed: 2.91 ft.** **Predicted: 1.50 ft.** **Residual: 1.41 ft.**

Historical Maximum Water Level: Sep 26 2004, 4.01 ft. above MHHW

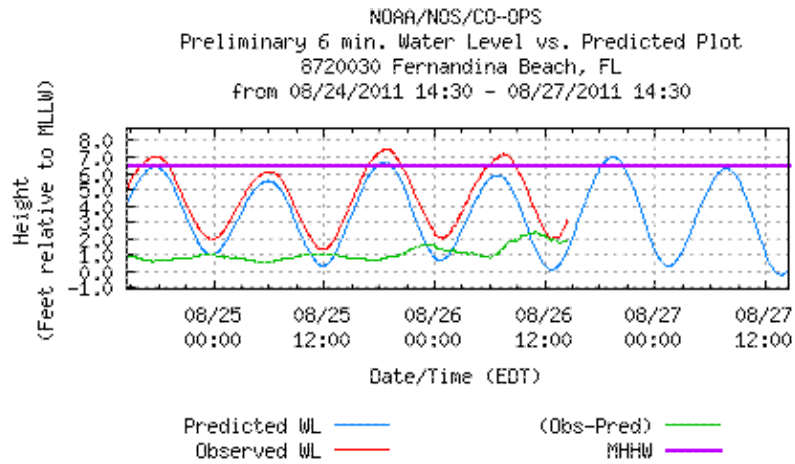
Trident Pier, FL - Return to List



Last Observed Sample: 08/26/2011 14:24 (EDT)

Wind Speed: 11 knots **Gusts: 14 knots** **Direction: 274° T**

[Fernandina Beach, FL](#) - [Return to List](#)

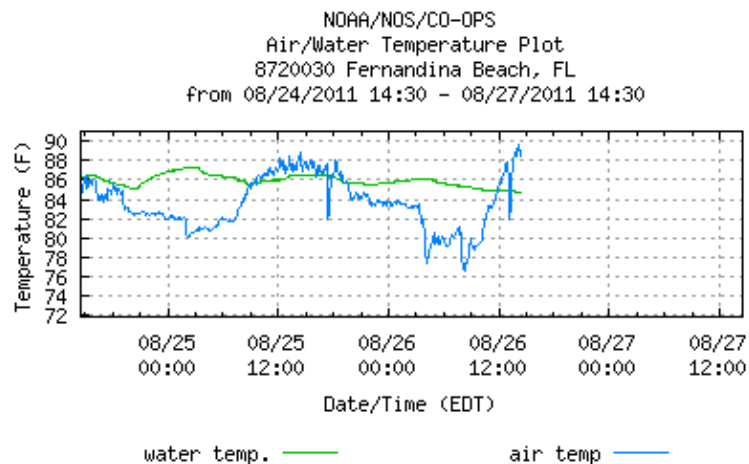


Last Observed Sample: 08/26/2011 14:24 (EDT)

Relative to MLLW: **Observed: 3.07 ft. Predicted: 1.23 ft. Residual: 1.84 ft.**

Historical Maximum Water Level: Oct 2 1898, 6.94 ft. above MHHW

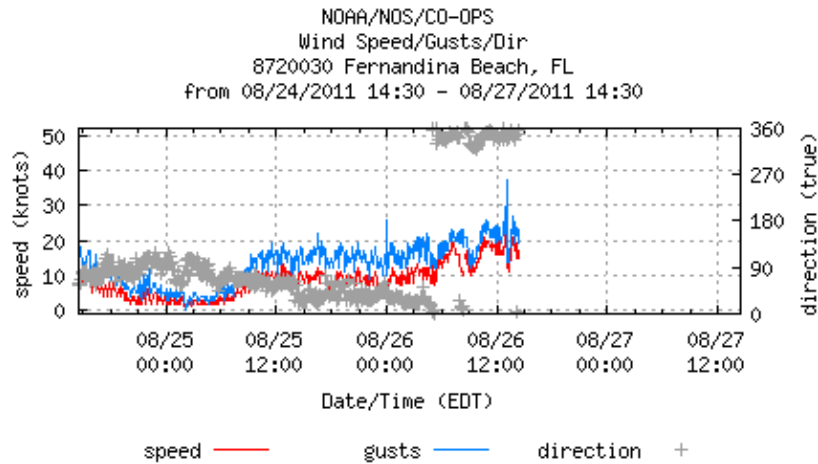
[Fernandina Beach, FL](#) - [Return to List](#)



Last Observed Sample: 08/26/2011 14:24 (EDT)

Water Temperature: 84.7° F Air Temperature: 89.1° F

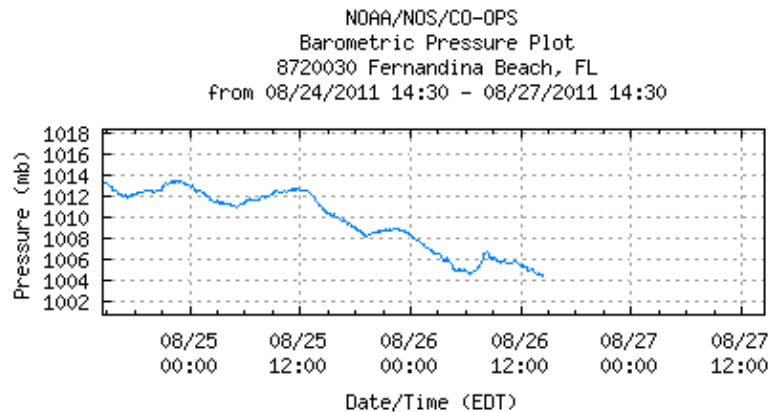
[Fernandina Beach, FL - Return to List](#)



Last Observed Sample: 08/26/2011 14:24 (EDT)

Wind Speed: 17 knots Gusts: 23 knots Direction: 355° T

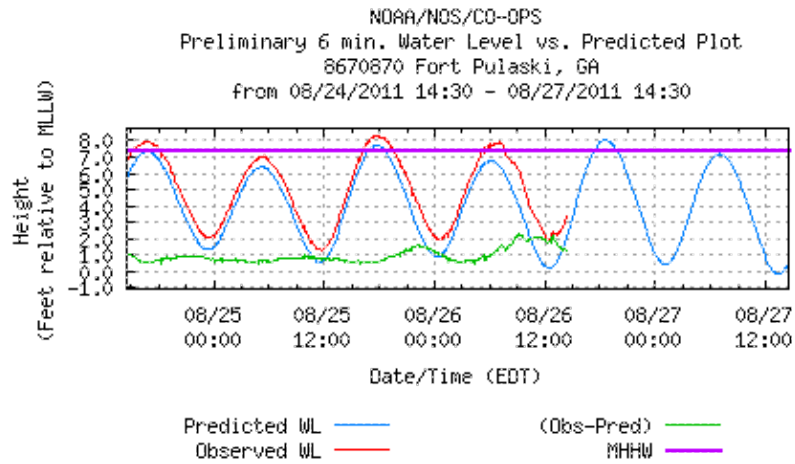
[Fernandina Beach, FL - Return to List](#)



Last Observed Sample: 08/26/2011 14:24 (EDT)

Barometric Pressure: 1004.4 mb

Fort Pulaski, GA - Return to List

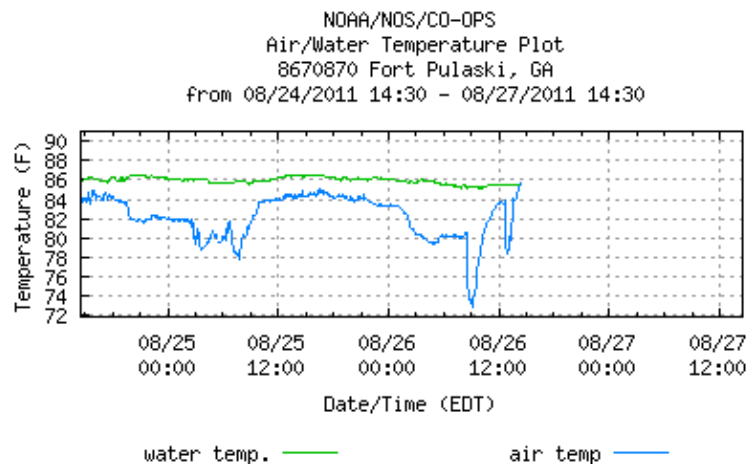


Last Observed Sample: 08/26/2011 14:24 (EDT)

Relative to MLLW: **Observed: 3.36 ft. Predicted: 2.12 ft. Residual: 1.24 ft.**

Historical Maximum Water Level: Oct 15 1947, 3.4 ft. above MHHW

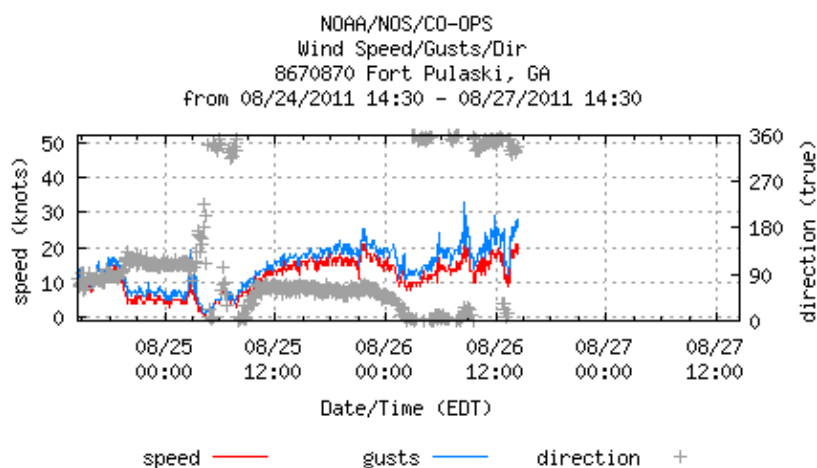
Fort Pulaski, GA - Return to List



Last Observed Sample: 08/26/2011 14:24 (EDT)

Water Temperature: 85.5° F Air Temperature: 85.6° F

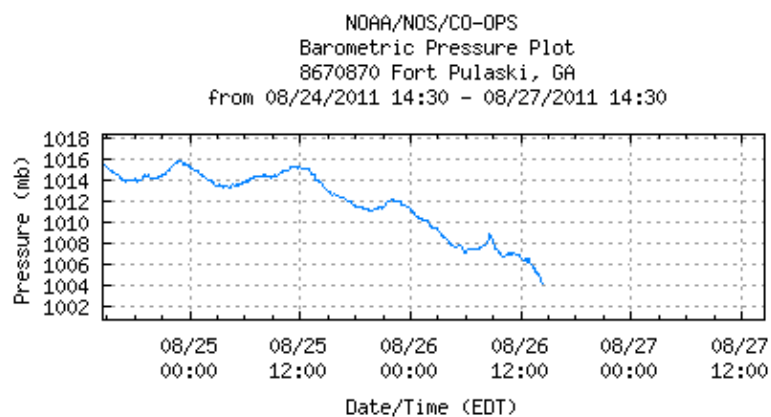
Fort Pulaski, GA - Return to List



Last Observed Sample: 08/26/2011 14:24 (EDT)

Wind Speed: 18 knots Gusts: 26 knots Direction: 339° T

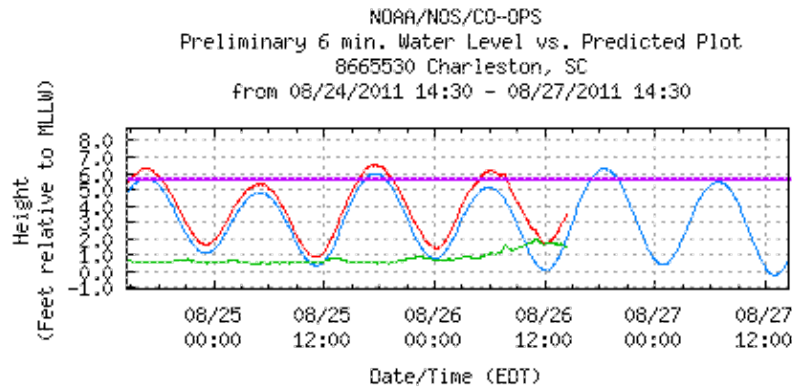
Fort Pulaski, GA - Return to List



Last Observed Sample: 08/26/2011 14:24 (EDT)

Barometric Pressure: 1004.2 mb

[Charleston, SC - Return to List](#)



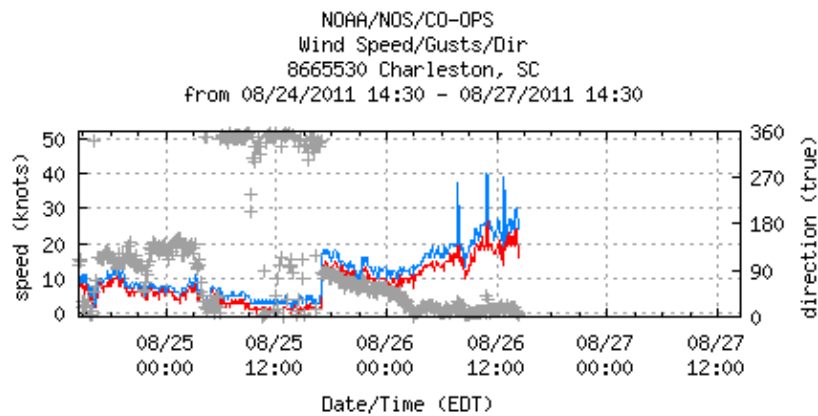
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/26/2011 14:24 (EDT)

Relative to MLLW: **Observed: 3.52 ft.** **Predicted: 2.06 ft.** **Residual: 1.46 ft.**

Historical Maximum Water Level: Sep 21 1989, 6.76 ft. above MHHW

[Charleston, SC - Return to List](#)

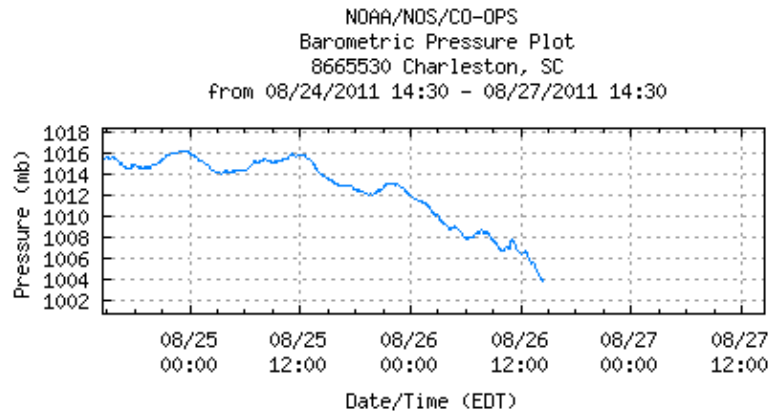


speed — gusts — direction +

Last Observed Sample: 08/26/2011 14:24 (EDT)

Wind Speed: 16 knots **Gusts: 24 knots** Direction: 4° T

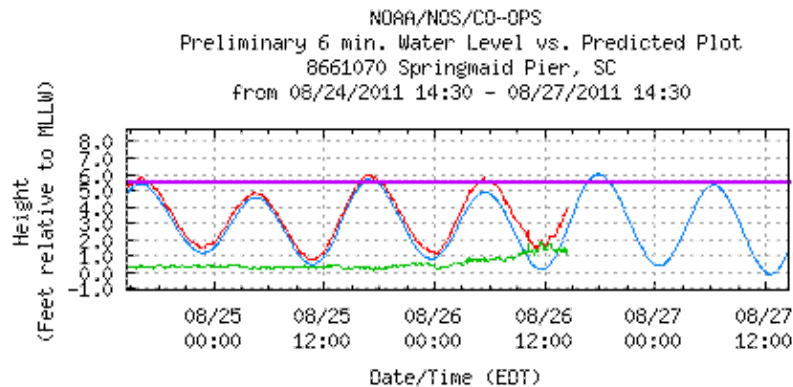
[Charleston, SC - Return to List](#)



Last Observed Sample: 08/26/2011 14:24 (EDT)

Barometric Pressure: 1003.9 mb

[Springmaid Pier, SC - Return to List](#)

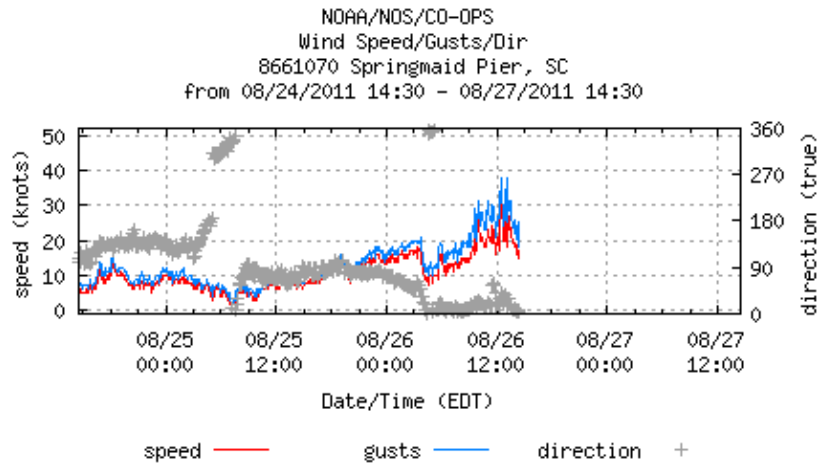


Last Observed Sample: 08/26/2011 14:24 (EDT)

Relative to MLLW: **Observed: 3.75 ft.** **Predicted: 2.58 ft.** **Residual: 1.17 ft.**

Historical Maximum Water Level: Jan 1 1987, 3.65 ft. above MHHW

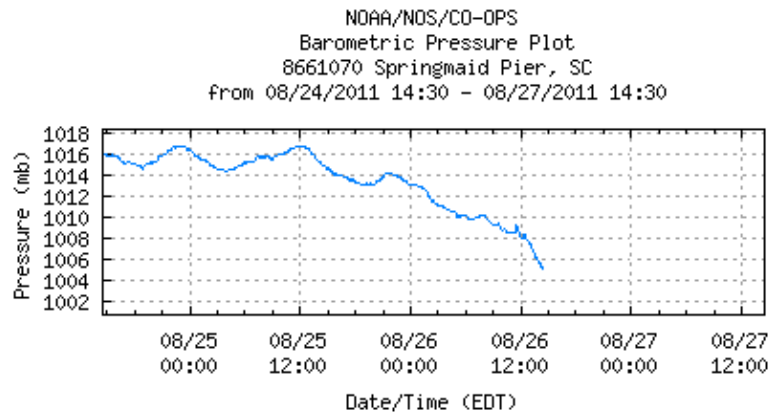
[Springmaid Pier, SC - Return to List](#)



Last Observed Sample: 08/26/2011 14:24 (EDT)

Wind Speed: 17 knots Gusts: 25 knots Direction: 4° T

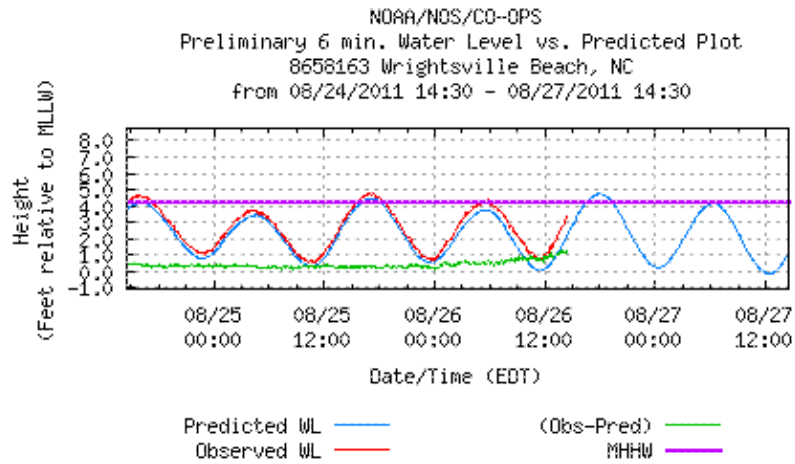
[Springmaid Pier, SC - Return to List](#)



Last Observed Sample: 08/26/2011 14:24 (EDT)

Barometric Pressure: 1005.2 mb

Wrightsville Beach, NC - Return to List

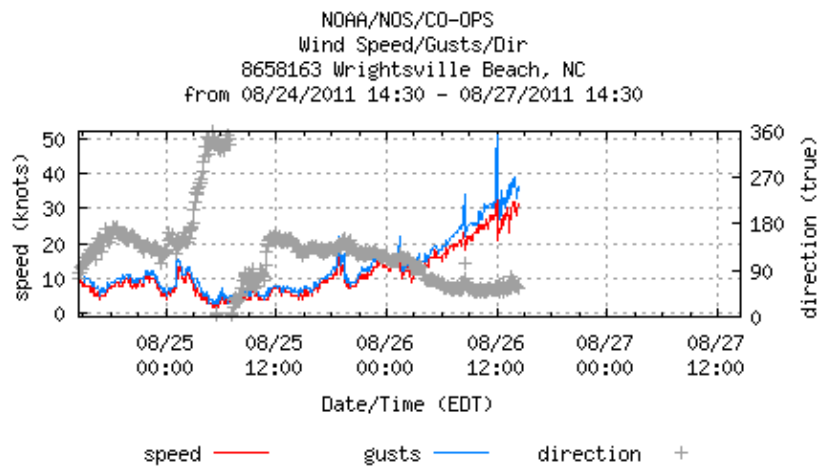


Last Observed Sample: 08/26/2011 14:24 (EDT)

Relative to MLLW: **Observed: 3.37 ft.** **Predicted: 2.17 ft.** **Residual: 1.20 ft.**

Historical Maximum Water Level: Sep 25 2008, 2.81 ft. above MHHW

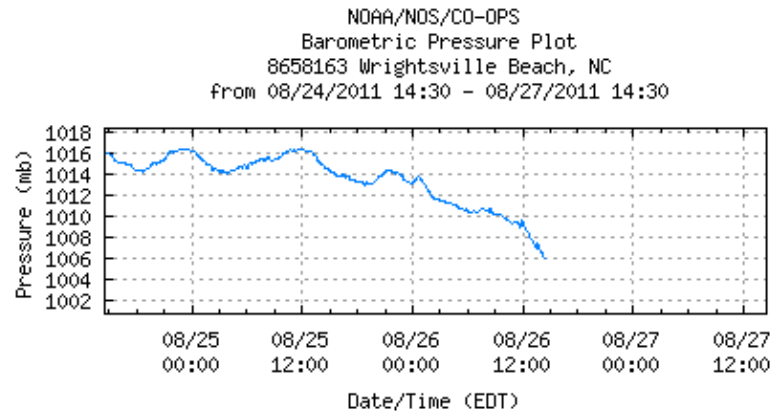
Wrightsville Beach, NC - Return to List



Last Observed Sample: 08/26/2011 14:18 (EDT)

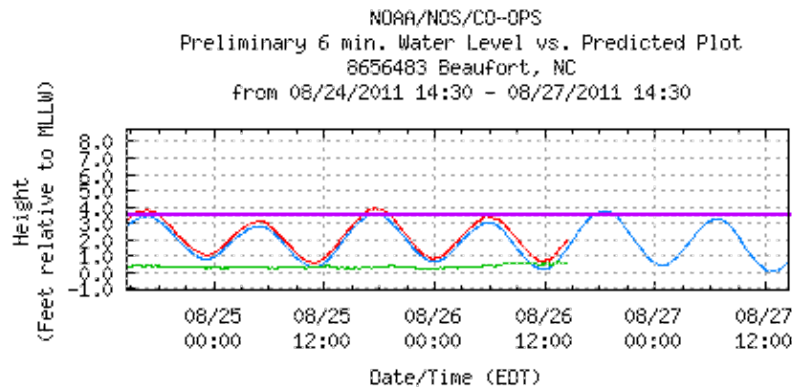
Wind Speed: 31 knots **Gusts: 36 knots** **Direction: 55° T**

Wrightsville Beach, NC - Return to List



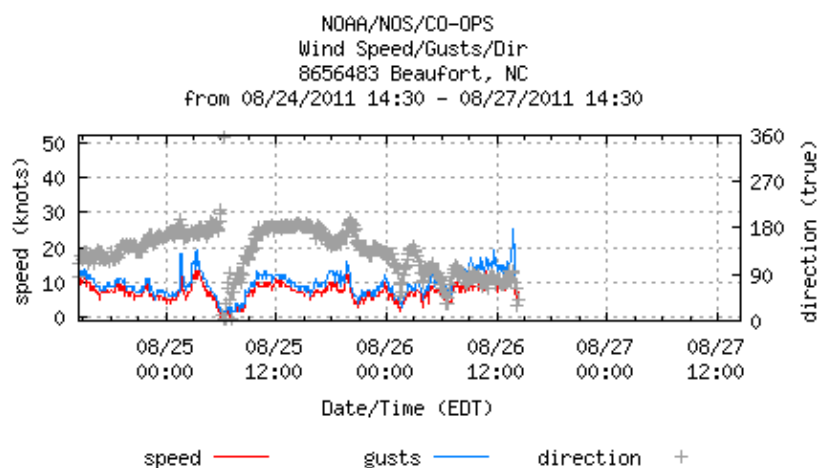
barometric pressure —
Last Observed Sample: 08/26/2011 14:18 (EDT)
Barometric Pressure: 1006.0 mb

Beaufort, NC - Return to List



Predicted WL — (Obs-Pred) —
Observed WL — MHHW —
Last Observed Sample: 08/26/2011 14:24 (EDT)
Relative to MLLW: Observed: 1.96 ft. Predicted: 1.45 ft. Residual: 0.51 ft.
Historical Maximum Water Level: Sep 16 1999, 2.74 ft. above MHHW

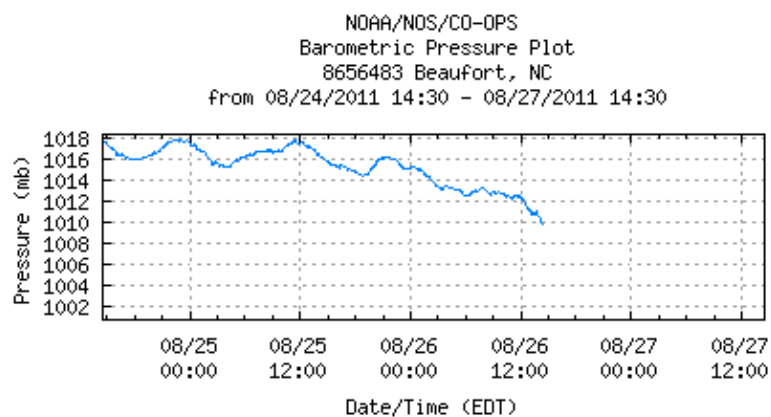
Beaufort, NC - Return to List



Last Observed Sample: 08/26/2011 14:18 (EDT)

Wind Speed: 7 knots Gusts: 10 knots Direction: 41° T

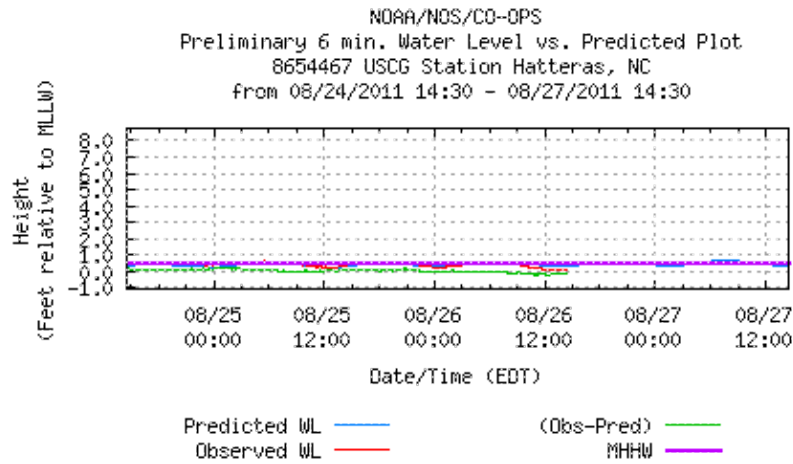
Beaufort, NC - Return to List



Last Observed Sample: 08/26/2011 14:18 (EDT)

Barometric Pressure: 1009.9 mb

USCG Station Hatteras, NC - Return to List

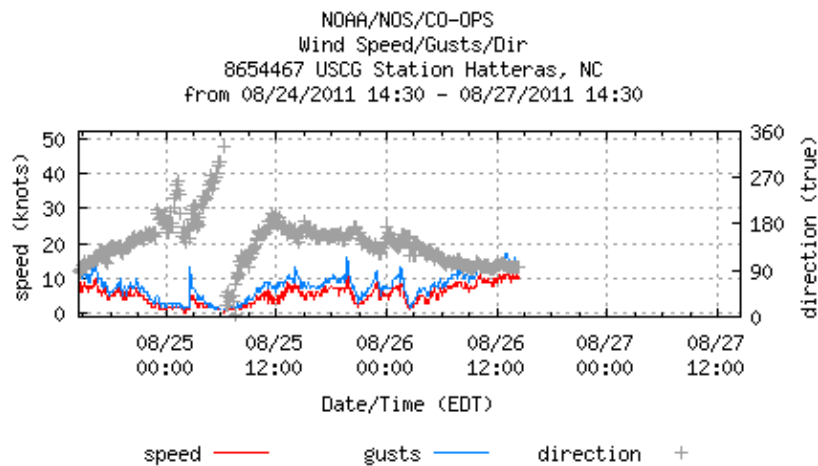


Last Observed Sample: 08/26/2011 14:24 (EDT)

Relative to MLLW: **Observed: 0.13 ft.** **Predicted: 0.26 ft.** **Residual: -0.13 ft.**

Historical Maximum Water Level: , 0 ft. above MHHW

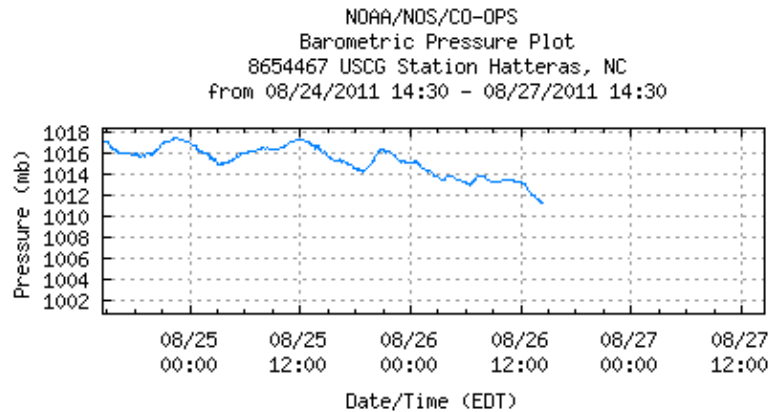
USCG Station Hatteras, NC - Return to List



Last Observed Sample: 08/26/2011 14:18 (EDT)

Wind Speed: 10 knots **Gusts: 15 knots** **Direction: 95° T**

USCG Station Hatteras, NC - Return to List

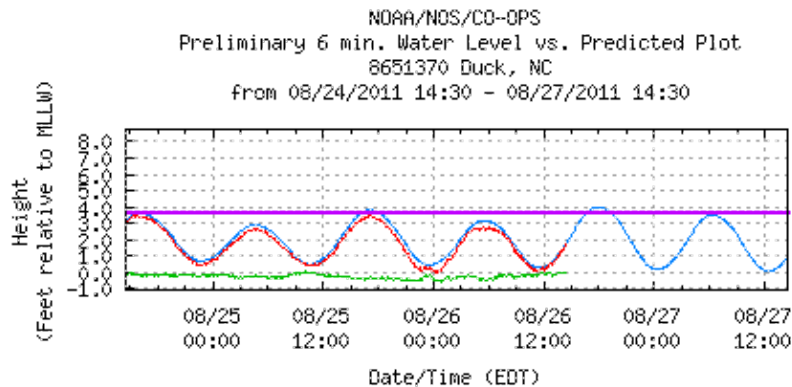


barometric pressure —

Last Observed Sample: 08/26/2011 14:18 (EDT)

Barometric Pressure: 1011.3 mb

Duck, NC - Return to List



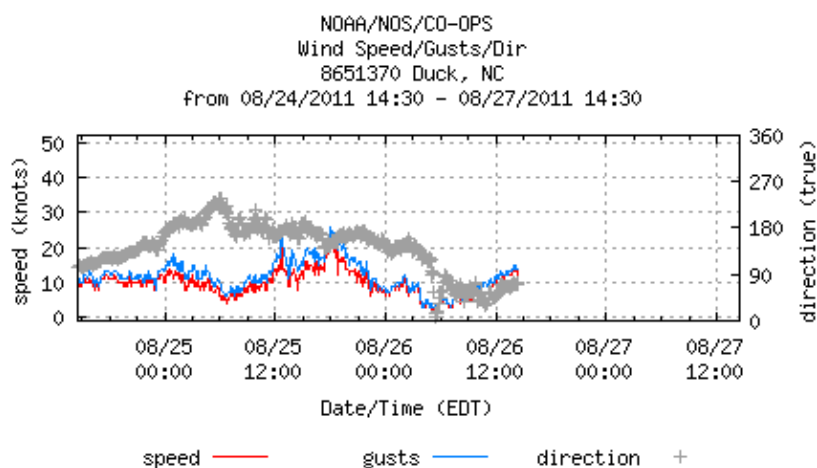
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/26/2011 14:24 (EDT)

Relative to MLLW: **Observed: 1.72 ft. Predicted: 1.73 ft. Residual: -0.01 ft.**

Historical Maximum Water Level: Aug 30 1999, 3.23 ft. above MHHW

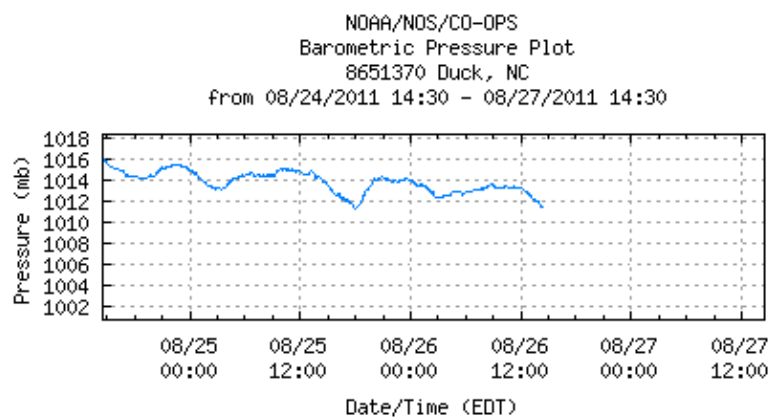
Duck, NC - Return to List



Last Observed Sample: 08/26/2011 14:24 (EDT)

Wind Speed: 13 knots Gusts: 14 knots Direction: 74° T

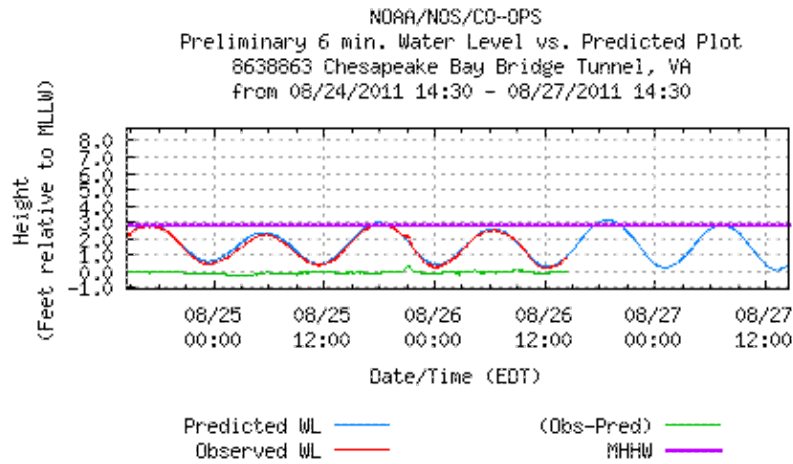
Duck, NC - Return to List



Last Observed Sample: 08/26/2011 14:24 (EDT)

Barometric Pressure: 1011.4 mb

Chesapeake Bay Bridge Tunnel, VA - Return to List

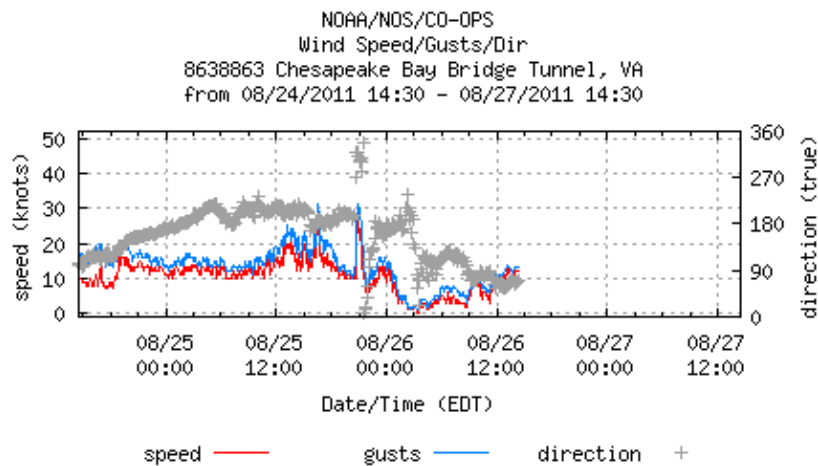


Last Observed Sample: 08/26/2011 14:18 (EDT)

Relative to MLLW: **Observed: 0.81 ft. Predicted: 0.87 ft. Residual: -0.06 ft.**

Historical Maximum Water Level: Feb 5 1998, 3.68 ft. above MHHW

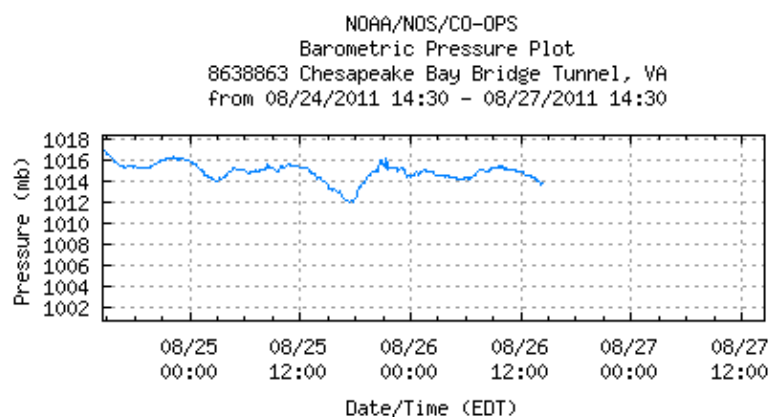
Chesapeake Bay Bridge Tunnel, VA - Return to List



Last Observed Sample: 08/26/2011 14:18 (EDT)

Wind Speed: 12 knots Gusts: 13 knots Direction: 69° T

[Chesapeake Bay Bridge Tunnel, VA - Return to List](#)



barometric pressure —

Last Observed Sample: 08/26/2011 14:18 (EDT)

[Barometric Pressure: 1013.7 mb](#)

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce